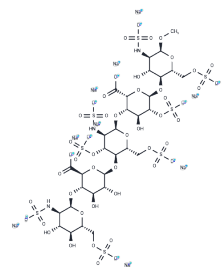


Fondaparinux sodium

Chemical Properties

CAS No. :	114870-03-0
Formula:	C ₃₁ H ₄₃ N ₃ Na ₁₀ O ₄₉ S ₈
Molecular Weight:	1728.08
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fondaparinux sodium (SR-90107A) is an antithrombin-dependent factor Xa inhibitor with antithrombotic activity.
Targets(IC50)	Factor Xa
In vitro	Fondaparinux sodium, the pioneering agent in a novel class of anticoagulants, selectively targets factor Xa with IC50 values (anti-Xa IU/ml) of 0.59±0.05 for activated monocytes (ac-M) and 0.17±0.03 for monocyte-derived microparticles (MMPs)[2].
In vivo	Fondaparinux sodium exhibits a linear, dose-dependent pharmacokinetic profile ensuring a highly predictable response. It is fully bioavailable (100%), with a quick onset and a half-life of 14 to 16 hours, providing prolonged antithrombotic effects throughout a 24-hour period. Notably, the drug does not impact prothrombin time, activated partial thromboplastin time, or platelet function and aggregation[1].

Solubility Information

Solubility	H ₂ O: 17.36 mM, Sonication is recommended. DMSO: 60 mg/mL (34.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5787 mL	2.8934 mL	5.7868 mL
5 mM	0.1157 mL	0.5787 mL	1.1574 mL
10 mM	0.0579 mL	0.2893 mL	0.5787 mL
50 mM	0.0116 mL	0.0579 mL	0.1157 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bauer KA. et al. Fondaparinux sodium: a selective inhibitor of factor Xa. Am J Health Syst Pharm. 2001 Nov 1;58 Suppl 2:S14-7.

Ben-Hadj-Khalifa S, et al. Differential coagulation inhibitory effect of fondaparinux, enoxaparin and unfractionated heparin in cell models of thrombin generation. Blood Coagul Fibrinolysis. 2011 Jul;22(5):369-73.

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